

# Proximity sensor SMTSO-8E-NS-M12-LED-24

Part number: 175825

**FESTO**



 [General operating condition](#)

## Data sheet

| Feature                                              | Value                                                                  |
|------------------------------------------------------|------------------------------------------------------------------------|
| Design                                               | For T-slot                                                             |
| Based on standard                                    | EN 60947-5-2                                                           |
| Symbol                                               | 00991150                                                               |
| Approval                                             | RCM trademark                                                          |
| CE mark (see declaration of conformity)              | To EU EMC Directive<br>In accordance with EU RoHS Directive            |
| UKCA marking (see declaration of conformity)         | To UK RoHS instructions                                                |
| Special characteristics                              | Welding field resistant<br>Resistant to welding spatter                |
| Note on materials                                    | RoHS-compliant                                                         |
| Instructions on use                                  | Support / actuator-sensor overview "The right sensor for the actuator" |
| Measured variable                                    | Position                                                               |
| Measuring principle                                  | Magneto-inductive                                                      |
| Ambient temperature                                  | -25 °C ... 70 °C                                                       |
| Repetition accuracy                                  | 0.2 mm                                                                 |
| Switching output                                     | NPN                                                                    |
| Switching behavior during welding process            | Output signal freezes                                                  |
| Switching element function                           | N/O contact                                                            |
| Switch-on time                                       | ≤38 ms                                                                 |
| Switch-off time                                      | ≤20 ms                                                                 |
| Max. switching frequency                             | 14 Hz                                                                  |
| Max. output current                                  | 200 mA                                                                 |
| Max. switching capacity DC                           | 6 W                                                                    |
| Voltage drop                                         | ≤3 V                                                                   |
| Off-state current                                    | ≤0.01 mA                                                               |
| Short circuit current rating                         | yes                                                                    |
| Overload protection                                  | Yes                                                                    |
| Operational voltage range DC                         | 10 V ... 30 V                                                          |
| Residual ripple                                      | 10 %                                                                   |
| Reverse polarity protection                          | For all electrical connections                                         |
| Electrical connection 1, connection type             | Plugs                                                                  |
| Electrical connection 1, connector system            | M12x1, A-coded to EN 61076-2-101                                       |
| Electrical connection 1, number of connections/cores | 3                                                                      |
| Electrical connection 1, type of mounting            | Not rotatable                                                          |
| Electrical connection 1, compatible type of mounting | Compatible with rotatable screw-type lock                              |
| Electrical connection 1, connection pattern          | 00995573                                                               |

| Feature                       | Value                                                                      |
|-------------------------------|----------------------------------------------------------------------------|
| Connection outlet orientation | Lateral                                                                    |
| Material electrical contact   | Gold-plated brass                                                          |
| Type of mounting              | Clamped in T-slot<br>With accessories<br>Insertable in the slot from above |
| Mounting position             | optional                                                                   |
| Product weight                | 10 g                                                                       |
| Housing colour                | Black                                                                      |
| Material housing              | PUR<br>High-alloy stainless steel                                          |
| Switching status indication   | Yellow LED                                                                 |
| Degree of protection          | IP65<br>IP67                                                               |
| Immunity to magnetic fields   | 45 - 65 Hz<br>Alternating magnetic field                                   |
| LABS (PWIS) conformity        | VDMA24364-B2-L                                                             |